
The Settlers 3.1
MULTi-GAME RE-
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Determining the conductance of a system from the DC voltage and current relationship Given this graph of a DC circuit, as derived from this on-line tutorial, I have been able to find the resistance of the system:
$$R_{\text{sys}} = \frac{V_{\text{sys}}}{I_{\text{sys}}}$$

$$\} \} = \frac{(x/10) - 5}{(1/10)} = 10 \text{ } \text{\$} \text{\$} \text{\$}$$

$$R_{\text{sys}} = 10 \text{ } \text{\Omega}$$

$\text{\$}$ However, I am not so sure how to derive the conductance of the system as I have not seen a graph of the same kind. I did find an equation to find the conductance, but I am not sure if it is an accurate way to

proceed. $\text{\$}$ $G =$

$$\frac{V}{I} =$$

$$\frac{V}{I(x/10) - 5}$$

$$= \frac{20}{x-5} \text{ } \text{\$}$$

$$G = \frac{20}{(10 - 5)} = \frac{20}{5} = 4$$

I am wondering whether or not I have done this correctly. In particular, would it be necessary to take the derivative of this expression to get to a true form for the graph? A:

$$\begin{aligned} I_{\text{sys}} &= \frac{x}{10} \\ I_{\text{sys}} &= \frac{V_{\text{sys}}}{R_{\text{sys}}} \\ R_{\text{sys}} &= 10 \end{aligned}$$

Derivate and find the slope of the line: $\frac{dI_{\text{sys}}}{dx} = \frac{1}{10} = \frac{dV_{\text{sys}}}{dR_{\text{sys}}}$

$$\frac{dI_{\text{sys}}}{dx} = \frac{1}{10} = \frac{dV_{\text{sys}}}{dR_{\text{sys}}}$$

Plug in x to get the slope of the line:

$$\begin{aligned}$$

$$\frac{dI_{\text{sys}}}{dx} = 2d92ce491b$$